

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08J 9/00, C08L 23/02, 25/00	A1	(11) International Publication Number: WO 99/47592 (43) International Publication Date: 23 September 1999 (23.09.99)
(21) International Application Number: PCT/US99/05706 (22) International Filing Date: 15 March 1999 (15.03.99) (30) Priority Data: 60/078,091 16 March 1998 (16.03.98) US (71) Applicant (for all designated States except US): THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): PARK, Chung, P. [US/DE]; Schulstrasse 10a, D-76532 Baden-Baden (DE). IMEOKPARIA, Daniel, D. [NG/US]; 5312 Vandermere Drive, Midland, MI 48642 (US). CHAUDHARY, Bharat, I. [IN/US]; 3419 Woodbine Place, Pearland, TX 77584 (US). (74) Agent: SPENCER, Lee; Patent Dept., B-1211, 2301 Brazosport Boulevard, Freeport, TX 77541 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: OPEN-CELL FOAM AND METHOD OF MAKING		
(57) Abstract An open-cell polystyrene foam is provided which is formed from a blend of polystyrene and an ethylene-styrene interpolymers. The ethylene-styrene interpolymers function as a cell opening agent, and is used to control the open cell content of the resulting foam, which may contain greater than 80 percent open cells. The foam is produced by an extrusion process in which carbon dioxide is used as the preferred blowing agent. The resulting foams may be formed into beads, plank, round, sheets, etc.		